

CLAIMS

What is claimed is:

1. A window lifter geared motor assembly comprising: a housing;
an electric motor in said housing; and
a damper damping movements of said electric motor in said housing.
2. The geared motor assembly according to Claim 1, wherein said geared motor assembly further comprises a drive shaft driven in rotation about an axis by said electric motor, said electric motor and said drive shaft being able to move in said housing along said axis, and said damper damping movements of said electric motor and said drive shaft along said axis.
3. The geared motor assembly according to Claim 2, wherein said damper damps movements of said electric motor in one direction along said axis.
4. The geared motor assembly according to Claim 2, wherein said damper is a spring located between said housing and said electric motor.
5. The geared motor assembly according to Claim 2, wherein said damper damps movements of said electric motor in a first direction along said axis and in a second direction along said axis opposite to said first direction.
6. The geared motor assembly according to Claim 5, wherein said damper includes two tension-compression springs located between said housing and said electric motor, one of said springs being located on opposed sides of said electric motor along said axis.

7. The geared motor assembly according to Claim 2, wherein said geared motor assembly further comprises a sensor, with a state of said sensor being dependent upon movements of said electric motor and of said drive shaft along said axis.

8. The geared motor assembly according to Claim 7, wherein said drive shaft is guided with respect to said housing by a bearing, and said sensor is located on said bearing.

9. The geared motor assembly according to Claim 7, further including a reduction gearset driven in rotation about a reduction shaft, said shaft being guided with respect to said housing by a bearing, and said sensor is located on said bearing.

10. The geared motor assembly according to Claim 7, wherein said sensor is fixed with respect to said housing.

11. The geared motor assembly according to Claim 7, wherein driving of said drive shaft is dependent upon a state of said sensor.

12. A method of damping movements in a window lifter geared motor assembly comprising the steps of:

providing an electric motor in a housing; and
damping movements of said electric motor in said housing.

13. The method as recited in claim 12 further including the steps of rotationally driving a drive shaft by said electric motor about an axis and moving said electric motor and said drive shaft along said axis, and the step of damping includes damping movements of said electric motor and said drive shaft along said axis.

14. The method as recited in claim 13 wherein the step of damping damps movements of said electric motor and said drive shaft in one direction along said axis.

15. The method as recited in claim 13 wherein the step of damping damps movements of said electric motor and said drive shaft in a first direction along said axis and in a second direction along said axis opposite to said first direction.

16. The method as recited in claim 13 further including the step of sensing the step of moving said electric motor and said drive shaft along said axis.